

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	164	703/2.ccls. and @pd>"20070201"	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2007/07/05 15:59

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L4	18	(differential adj equation) same (GPU or (graphic\$1 adj processor) or pipeline)	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2007/07/05 16:14



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"predetermined number of iterations" converge -

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[J Frank](#)

[C Vuik](#)

[P Banerjee](#)

[J Charlier](#)

[J Sanchez](#)

[Parallel implementation of a multiblock method with approximate subdomain solution - all 11 versions »](#)

J Frank, C Vuik - Appl. Numer. Math, 1999 - [homepages.cwi.nl](#)

... of the fact that the global iteration has a nite **convergence** rate. ... to a xed tolerance, to a variable tolerance, or for a **predetermined number of iterations**. ...

Cited by 19 - [Related Articles](#) - [View as HTML](#) - [Web Search](#)

[A Continuation and Bifurcation Technique for Navier-Stokes Flows - all 11 versions »](#)

J Sanchez, F Marques, JM Lopez - Journal of Computational Physics, 2002 - [dfa.upc.es](#)

... Although **convergence** properties are best known for subspace iteration, we have found that, for the fluid dynamics problems presented ... banded **linear equations**. ...

Cited by 10 - [Related Articles](#) - [Web Search](#) - [BL Direct](#)

[Method of dual matrices for function minimization - all 2 versions »](#)

HY Huang - Journal of Optimization Theory and Applications, 1974 - Springer

... of **iterations**. For a nonquadratic function, a rather precise one-dimensional search is also needed in order to realize the quick terminal **convergence** capability ...

Cited by 6 - [Related Articles](#) - [Web Search](#) - [Library Search](#)

[A Theory of Secant Preconditioners - all 3 versions »](#)

JM Martinez - Mathematics of Computation, 1993 - JSTOR

... to (1.2) of a **predetermined number of iterations** of some ... JE Dennis and HF Walker, **Convergence** theorems for ... for sparse unsymmetric **linear equations**, AERE R8730 ...

Cited by 7 - [Related Articles](#) - [Web Search](#) - [BL Direct](#)

[Method and system for solving linear systems - all 3 versions »](#)

SW Pan, SL Panchumathi, R Srinath, SPT Wang - US Patent 6,078,938, 2000 - Google Patents

... the iterative tech -niques to **converge** on a ... of solving a system of **linear equations** using the ... the steps of boxes 76-86 a **predetermined number of iterations**. ...

Cited by 4 - [Related Articles](#) - [Web Search](#)

[Method for simulating a circuit - all 2 versions »](#)

US Patent 5,666,367, 1997 - [freepatentsonline.com](#)

... values has not decreased after a **predetermined number of iterations**. ... of HN non-linear

equations can be ... use because of poor **convergence** behavior, particularly ...

Cited by 5 - [Related Articles](#) - [Cached](#) - [Web Search](#)

[A systolic algorithm for riccati and lyapunov equations](#)

JP Charlier, P Van Dooren - Mathematics of Control, Signals, and Systems (MCSS), 1989 - Springer

... step of the recursion). This recursion is known to **converge** (rather rapidly) to a semisimple matrix l'B1] sign(H):= H = lira Hk (8 ...

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"multiple iterations" converge "linear equations" -

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[P Ferreira](#)

[G Nong](#)

[M Qidwai](#)

[A Jaffe](#)

[J Muppala](#)

[Simultaneous estimation of noise and signal in cosmic microwave background experiments](#) - all 10 versions »

PG Ferreira, AH Jaffe - Monthly Notices of the Royal Astronomical Society, 2000 - Blackwell Synergy

... from equation (31), this is tied to the **convergence** of the iterative scheme we propose: if the n are small the algorithm either does not **converge** or takes a ...

Cited by 46 - [Related Articles](#) - [Web Search](#) - [BL Direct](#)

[Analysis of nonblocking ATM switches with multiple input queues](#) - all 5 versions »

G Nong, JK Muppala, M Hamdi - Networking, IEEE/ACM Transactions on, 1999 - [ieeexplore.ieee.org](#)

... the remaining possible connections and thus the algorithm will **converge** to a ... recursive formula for the throughput of the switch with **multiple iterations** PIM is ...

Cited by 47 - [Related Articles](#) - [Web Search](#) - [BL Direct](#)

[Inverse theory applied to multi-source cross-hole tomography: Part 1: Acoustic-wave equation method](#) - all 2 versions »

RG Pratt, MH Worthington - Geophysical Prospecting, 1990 - Blackwell Synergy

... development leads to a large system of coupled **linear equations** which can ... in linear problems, non-linear inversion requires **multiple iterations** to **converge**. ...

Cited by 32 - [Related Articles](#) - [Web Search](#)

[Domain decomposition for the incompressible Navier–Stokes equations: solving subdomain problems](#) ... - all 7 versions »

E Brakkee, C Vuik, P Wesseling - International Journal for Numerical Methods in Fluids, 1998 - [doi.wiley.com](#)

... domain decomposition methods with minimal overlap are quite efficient, provided Krylov subspace methods, eg the GMRES method, are used to accelerate **convergence** ...

Cited by 19 - [Related Articles](#) - [Web Search](#) - [Library Search](#) - [BL Direct](#)

[A new optimal window \[signal processing\]](#) - all 3 versions »

JW Adams - Signal Processing, IEEE Transactions on [see also Acoustics, ..., 1991 - [ieeexplore.ieee.org](#)

Page 1 IBEF. TRANSACTIONS ON SIGNAL PROCESSING, VOL. 39, NO. 8. AUGUST 1991
1753 A New Optimal Window John W. Adams, Senior Member ...

Cited by 35 - [Related Articles](#) - [Web Search](#)

[A Parallel Newton-Krylov Method for Rotary-wing Floweld Calculations](#) - all 4 versions »

AW Wissink, AS Lyrintzis, AT Chronopoulos - AIAA Journal, 1999 - [pdf.aiaa.org](#)

... The use of a spectral approximation places the largest terms on the diagonal matrix, which ensures diagonal dominance and allows the method to **converge** for any ...

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[Building Domain-Specific Environments for Computational Science: a Case Study in Seismic Tomography](#) - all 4 versions »

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[M Kenworthy](#)

[K Griffin](#)

[M Toelle](#)

[S Gabriel](#)

[J Chauvin](#)

[A display system for the Stellar graphics supercomputer model GS1000](#)

B Apgar, B Bersack, A Mammen - ACM SIGGRAPH Computer Graphics, 1988 - portal.acm.org

... are inside the boundaries are written. For simple polygons, the edges are defined by **linear equations**. For Gouraud shading of a ...

[Cited by 46](#) - [Related Articles](#) - [Web Search](#)

[Graphics rendering device and method for operating same - all 2 versions »](#)

JW Chauvin, SA Gabriel, H Good, KE Griffin, ML ... - US Patent 5,886,701, 1999 - Google Patents

... pp. 472^74, 1992. Runyon, Kenneth R., "Advanced **Graphics Processor**", Digi-talAvionics Systems, 1993 Conference, pp. 394-399, 1993. ...

[Cited by 53](#) - [Related Articles](#) - [Web Search](#)

[The Silicon Graphics 4D/240GTX superworkstation - all 6 versions »](#)

K Akeley - Computer Graphics and Applications, IEEE, 1989 - ieeexplore.ieee.org

... We expect a more rigid fea- ture/performance trade-off from a dedicated **graphics processor** than from an application-programmable The advantages of application ...

[Cited by 41](#) - [Related Articles](#) - [Web Search](#)

[Pixel rendering - all 2 versions »](#)

BB Bersack, A Mammen, JW Poduska Sr - US Patent 5,136,664, 1992 - Google Patents

... 3, Siggraph '85, pp. 111-120. Levinthal et al., Chap-A SIMD **Graphics Processor**, Computer Graphics, vol. ... (generally based on first order **linear equations** but in ...

[Cited by 13](#) - [Related Articles](#) - [Web Search](#)

[Image mapping system and process using panel shear transforms - all 3 versions »](#)

MA Cosman - US Patent 5,850,225, 1998 - Google Patents

... 18 **GRAPHICS PROCESSOR SHEAR MATRIX MEMORY** ... $j^{\wedge} \tan _ \theta$ as treated herei simple

linear equations. scene details are based on the equations that describe these ...

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[Method and system for accessing texture data in environments with high latency in a graphics ... - all 3 versions »](#)

KE Griffin, ML Kenworthy, JE Veres, JW Chauvin, MA ... - US Patent 5,880,737, 1999 - Google Patents

... 472-474, 1992. Runyon, Kenneth R., "Advanced **Graphics Processor**", Digi-talAvionics Systems, 1993 Conference, pp. 394-399, 1993. ...

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[Real time modelling of multimachine power systems - all 4 versions »](#)

T Berry, LA Dale, AR Daniels, RW Dunn - Generation, Transmission and Distribution [see also IEE ..., 1993 - ieeexplore.ieee.org

... 3.2 Sparse matrix methods A major part of the simulation algorithm involves the solution of sets of **linear equations** of the general form $A \cdot x = b$ (22) ...

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P Debevec

C Taylor

J Malik

M Alexa

J Behr

Book Modeling and rendering architecture from photographs: a hybrid geometry-and image-based approach - all 72 versions »

PE Debevec, CJ Taylor, J Malik - 1996 - ACM Press New York, NY, USA

Page 1. To appear in the SIGGRAPH conference proceedings Modeling and Rendering Architecture from Photographs: A hybrid geometry- and image-based approach ...

Cited by 1046 - [Related Articles](#) - [Web Search](#) - [Library Search](#)

A real-time low-latency hardware light-field renderer - all 7 versions »

MJP Regan, GSP Miller, SM Rubin, C Kogelnik - Proceedings of the 26th annual conference on Computer ..., 1999 - portal.acm.org

... Images generated with a conventional 3D **graphics pipeline** have the same camera viewing ...

location of a pixel and s and t are simple **linear equations** derived from ...

Cited by 19 - [Related Articles](#) - [Web Search](#)

System and method for generating smooth low degree polynomial spline surfaces over irregular meshes - all 4 versions »

C Loop - US Patent 5,602,979, 1997 - Google Patents

... 2 is a **graphics pipeline** diagram of the sequence of steps involved in the method for generating smooth low degree polynomial spline surfaces over irregular ...

Cited by 30 - [Related Articles](#) - [Web Search](#)

Hardware-Accelerated Free-Form Deformation - all 8 versions »

C Chua, U Neumann - Proc. SIGGRAPH/Eurographics Workshop on Graphics Hardware, 2000 - pusa.uv.es

... lattice shapes are possible with the EFFD, the parameterization also becomes more complex, requiring a solution to a system of non-linear **equations** [2]. This ...

Cited by 7 - [Related Articles](#) - [View as HTML](#) - [Web Search](#)

On the algebraic and geometric foundations of computer graphics

R Goldman - ACM Transactions on Graphics (TOG), 2002 - portal.acm.org

... affine spaces, projective spaces, and Grassmann spaces—for computer graphics, focusing most of our attention on the transformations in the **graphics pipeline**. ...

Cited by 13 - [Related Articles](#) - [Web Search](#) - [BL Direct](#)

Image mapping system and process using panel shear transforms - all 3 versions »

MA Cosman - US Patent 5,850,225, 1998 - Google Patents

... relatively $j^{\tan \theta}$ as treated here simple **linear equations**. scene details are based on the equations that describe these ...

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DIFFUSION MODELS AND THEIR ACCELERATED SOLUTION IN IMAGE AND SURFACE PROCESSING - all 63 versions »

U DIEWALD, T PREUSSER, M RUMPF, R STRZODKA - Proceedings of Algorithmy, 2000 - emis.ams.org

Page 1. Acta Math. Univ. Comenianae Vol. LXX, 1(2001), pp. 15–31 Proceedings

Scholar All articles - **Recent articles** Results 1 - 10 of about 33 for "linear equations" "gpu". (0.12 :

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[S SIRTORI](#)

[G Maier](#)

[G NOVATI](#)

[S MICCOLI](#)

[W Hogan](#)

[A Galerkin symmetric boundary-element method in elasticity- Formulation and implementation - all 4 versions »](#)

S SIRTORI, G MAIER, G NOVATI, S MICCOLI - International Journal for Numerical Methods in Engineering, 1992 - doi.wiley.com

Page 1. INTERNATIONAL JOURNAL FOR NUMERICAL METHODS IN ENGINEERING, VOL.

35,255-282 (1992) A GALERKIN SYMMETRIC BOUNDARY-ELEMENT ...

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[GRAVITY FROM SELFINTERACTION IN A CURVED BACKGROUND - all 4 versions »](#)

S Deser - Classical and Quantum Gravity, 1987 - iop.org

... where **gpu** is the contravariant metric density and (F, g) are independent variables with ... space is to put in by hand a source qru of the initial **linear equations** ...

[Cited by 32](#) - [Related Articles](#) - [Web Search](#)

[Boundary integral equation analysis in linear viscoelasticity: variational and saddle point ...](#)

A Carini, M Diligenti, G Maier - Computational Mechanics, 1991 - Springer

... 4, is that the algebraic **linear equations** governing the boundary unknowns P and U ... in elasticity (namely, in three-dimensional situations: $G_{uu} O(r^{-1})$; $G_{pu} O(r \dots$

[Cited by 6](#) - [Related Articles](#) - [Web Search](#)

[On the Cauchy problem foe Einstein's equations](#)

AN Temchin - Russian Physics Journal, 1980 - Springer

... of the solution of a problem with initial data on characteristics for **linear equations** with constant ... are proportional to the derivatives of **gpu** at the origin: ...

[Related Articles](#) - [Web Search](#)

[Instantons and minimal surfaces - all 4 versions »](#)

A Comtet - Physical Review D, 1978 - APS

... 'It has recently been observed' that various non- **linear equations** may be interpreted in a ... 1 ar e =_ (4) The set of vectors 'e is such that (e,, , eU) - **gpu**

[Cited by 11](#) - [Related Articles](#) - [Web Search](#)

[Flying hot-wire anemometry - all 3 versions »](#)

BE Thompson, JH Whitelaw - Experiments in Fluids, 1984 - Springer

... obtained from the solution of four simultaneous **linear equations** which represent the cooling response of four ... l / / / d / / / / l) j i . i . - . . **gpu** -

[Cited by 13](#) - [Related Articles](#) - [Web Search](#)

[Solutions of the nonsymmetric unified field theory - all 3 versions »](#)

JW Moffat, DH Boal - Physical Review D, 1975 - APS

... The 64 homogeneous **linear equations** (2.5) have been solved by Papapetrou,5 Wyman,5 and ... of this is to transpose our ex- pression (3.3) for **gpu** which leads ...

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[W Briggs](#)

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[book](#) [A multigrid tutorial - all 10 versions »](#)

WL Briggs, SF McCormick - 2000 - Society for Industrial and Applied Mathematics Philadelphia, PA, ...

... Peter Schröder, Sparse matrix solvers on the **GPU**: conjugate gradients and ... G.1 NUMERICAL

ANALYSIS G.1.8 **Partial Differential Equations** Subjects: Multigrid and ...

[Cited by 861](#) - [Related Articles](#) - [Web Search](#) - [Library Search](#)

[Physically-based visual simulation on graphics hardware - all 14 versions »](#)

MJ Harris, G Coombe, T Scheuermann, A Lastra - Proceedings of the ACM

SIGGRAPH/EUROGRAPHICS conference on ..., 2002 - portal.acm.org

... to CML implementation are multidimensional initial-value **partial differential equations**. ...

GPU performance tracks rapid improvements in semiconductor technology ...

[Cited by 108](#) - [Related Articles](#) - [Web Search](#)

[A GPU-based, three-dimensional level set solver with curvature flow - all 8 versions »](#)

A Lefohn, R Whitaker - University of Utah tech report UUCS-02-017, December, 2002 - sci.utah.edu

... in this work, we demonstrate a **GPU**-based, three- dimensional level ... implicitly as interfaces, and uses the framework of **partial differential equations** (PDEs) to ...

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[book](#) [Nonlinear Diffusion in Graphics Hardware - all 7 versions »](#)

M Rumpf, R Strzodka - 2000 - numerik.math.uni-duisburg.de

... In fact, many discretizations of **partial differential equations** lead to a sparse linear sys ... only two main components: the graphics processor unit (**GPU**) and the ...

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[Direct simulation of fluid flow with cellular automata and the lattice-Boltzmann equation - all 3 versions »](#)

JA Somers - Flow, Turbulence and Combustion, 1993 - Springer

... of the automaton, the N/ϵ fields satisfy the following set of coupled **partial**

differential equations. ... $\partial_t \rho + \nabla \cdot (\rho \mathbf{u}) = 0$ $\partial_t \rho + \nabla \cdot (\rho \mathbf{u}) = -\nabla \cdot (\mathbf{u} \cdot \nabla \rho)$, with $\mathbf{P} = \mathbf{P} \dots$

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[book](#) [Using Graphics Cards for Quantized FEM Computations - all 9 versions »](#)

M Rumpf, R Strzodka - 2001 - numod.ins.uni-bonn.de

... is the formerly explained unrivaled dominance of the **GPU** over the ... It is hard to exploit these in solvers for **partial differential equations** modeling various ...

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[Multiple and anisotropic inflation with exponential potentials - all 5 versions »](#)

JE Lidsey - Classical and Quantum Gravity, 1992 - iop.org

... ie $H(f) = H(dj(f))$. Therefore, the system (21) may be expressed as a set of first-order non-linear **partial differential equations** [15]: $d \ln R(1) / dt \cdot H = \dots$

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M Rumpf, R Strzodka - 2000 - numerik.math.uni-duisburg.de

... of modern graphics cards has reached a state, where the **graphics processor** unit may ... **Partial differential equations** in image processing are exactly of this type ...

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»

M Rumpf, R Strzodka - 2001 - numod.ins.uni-bonn.de

... graphics cards has reached a state, where the **graphics processor** unit may ... even typical

discrete numeri- cal schemes for **partial differential equations** can be ...

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[A processor architecture for 3D graphics - all 8 versions »](#)

Y Wang, A Mangaser, P Srinivasan - Computer Graphics and Applications, IEEE, 1992 - ieeexplore.ieee.org

... i860 has become a popular candidate as the 3D **graphics processor** for many ... the simulta-

neous solution of large sets of **partial differential equations** are two ...

[Cited by 1](#) - [Related Articles](#) - [Web Search](#)

[Supercomputers for EM/EMC problems](#)

G Radha, AB Patki, P Santhi, M Surekha, AV Sudha, ... - Electromagnetic Compatibility, 1990. Symposium Record. 1990 ..., 1990 - ieeexplore.ieee.org

... lines in each space direction. The situation for 2-D will give rise to 3 non linear **partial differential equations**. So in 2D (with ...

[Web Search](#)

[SIMULATION OF BIPOLAR HIGH-VOLTAGE DEVICES](#)

WU Qiming, FE CELLIER - Mathematics and Computers in Simulation, 1986 - inf.ethz.ch

... continuity equations are nonlinear elliptic **partial differential equations** which have to be solved simulta- neously. ... **differential equations**. ...

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[CAFCA \(Compact Accelerator For Cellular Automata\): the metamorphosable machine](#)

P Marchal, E Sanchez - FPGAs for Custom Computing Machines, 1994. Proceedings. IEEE ..., 1994 - ieeexplore.ieee.org

... Computer science (image processing, computer **graphics, processor arrays**). ... dynamical

systems, that is, usually differential or **partial differential equations**. ...

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DH Eberly - 2001 - books.google.com

Page 1. e Engine A Practical • 1• Approach to Real-Time Computer . 1 Graphics Design LII . I ; Page 2. GLOSSARY OF NOTATION R, IR , [0, oo) ...

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MJ Harris, G Coombe, T Scheuermann, A Lastra - Proceedings of the ACM

SIGGRAPH/EUROGRAPHICS conference on ..., 2002 - portal.acm.org

... Laplacian is one of the most useful tools for working with **partial differential equations**. ... must map directly to pixels in the output of the **graphics pipeline**. ...

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... is to exploit these in solvers for **partial differential equations** modeling various ... precision or some unoptimized parts of the **graphics pipeline**, but the ...

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... In fact, many discretizations of **partial differential equations** lead to a sparse linear sys ... that there are many stages in the **graphics pipeline** where linear ...

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... as interfaces, and uses the framework of **partial differential equations** (PDEs) to ... In the last two years, GPUs' fixed-function **graphics pipeline** has begun to ...

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U DIEWALD, T PREUSSER, M RUMPF, R STRZODKA - Proceedings of Algorithm, 2000 - emis.ams.org

... image processing. Finite element methods are widely spread to discretize the underlying **partial differential equations**. Their convergence ...

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[CONDOR: constraint-based dataflow - all 3 versions »](#)

M Kass - Proceedings of the 19th annual conference on Computer ..., 1992 - portal.acm.org

... The standard "**graphics pipeline**" found in many work- stations consists of a ...